What is Claimed is:

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- 1. A proportioning system, comprising at least one tool (1), a programmable electronic storage device (14) disposed on the tool (1), a proportioning device (15) including a device for releasably mounting the tool, a device for actuating the tool (1), and a device for controlling the device for actuating the tool and/or device for releasably mounting it, and a device for contacting (19) connected to the device for controlling and disposed on the proportioning device (15) and another device for contacting (12) disposed on the tool (1) that is connected to the programmable electronic storage device (14) wherein the device for contacting (19) and the other device for contacting (11) contact each other when the tool (1) is releasably mounted on the proportioning device (15).
- 2. The proportioning system according to claim 1 wherein the proportioning device (15) is a pipette and/or dispenser or proportioning station or laboratory-type automatic apparatus and/or wherein at least one tool (1) is a pipette tip and/or syringe and/or proportioning head and/or another proportioning tool and/or prehensile tool.
- 20 3. The proportioning system according to claim 1 wherein the device for contacting (19) is a spring-loaded contact strip and the other device for contacting is a contact strip (11), or vice versa.
- 4. The proportioning system according to claim 1 wherein the device for contacting (19) and the other device for contacting (11), in addition to having contacts for a data transfer, have contacts for a power supply.
 - 5. The proportioning system according to claim 1 wherein the programmable electronic storage device (14) is an EEPROM.

6. The proportioning system according to claim 3 wherein the programmable electronic storage device (14) is disposed between the contact strip (11) and a casing wall (5) of the tool (1).

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- 7. The proportioning system according to claim 1 wherein the programmable electronic storage device (14) is coated with a varnish.
- 8. The proportioning system according to claim 1 wherein the device for releasably mounting on the proportioning device (15) has an axial receptacle (17) and the tool (1) has a spigot (7) for introduction into the receptacle (17).
 - 9. The proportioning system according to claim 3 wherein the spring contacts (19) and the contact strip (11) are oriented in parallel with the direction of assembly for the proportioning device (15) and the tool (1).
 - 10. The proportioning system according to claim 1 wherein production-related and/or application-related data can be stored in the programmable electronic storage device (14).

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11. A process for operating a proportioning system using at least one tool and a proportioning device, specifically according to claim 1 wherein production-related data is stored during production and/or application-related data is stored during application in a programmable electronic storage device of the tool, the production-related data and/or application-related data is read from the programmable electronic storage device and is supplied to a device for controlling comprised in the proportioning device during application, and the device for controlling controls a device comprised in the proportioning device for actuating the tool and/or a device comprised in the proportioning device for

releasably mounting the tool on the proportioning device in dependence on the production-related data and/or application-related data.

12. The process according to claim 11 wherein the production-related data and/or application-related data are calibration data and/or mechanical correction data.

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- 13. The process according to claim 11 wherein the production-related and/or application-related data are written into the programmable electronic storage device by means of an electronic data processing system separated from the proportioning system.
- 14. The process according to claim 11 wherein the production-related and/or application-related data are written into the programmable electronic storage device or are read therefrom by means of the device for controlling and/or an electronic data processing device comprised in the proportioning system.
- 15. The process according to claim 11 wherein the production-related and/or application-related data are written into or read from the programmable electronic storage device via a device for contacting the proportioning device and another contacting device contacting it and connected thereto, which is connected to the data processing device comprised in the proportioning system and/or to the device for controlling.